

EP 24738 (5)

# EUROPEAN PATENT OFFICE

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## Patent Abstracts of Japan

PUBLICATION NUMBER : 03237037  
PUBLICATION DATE : 22-10-91

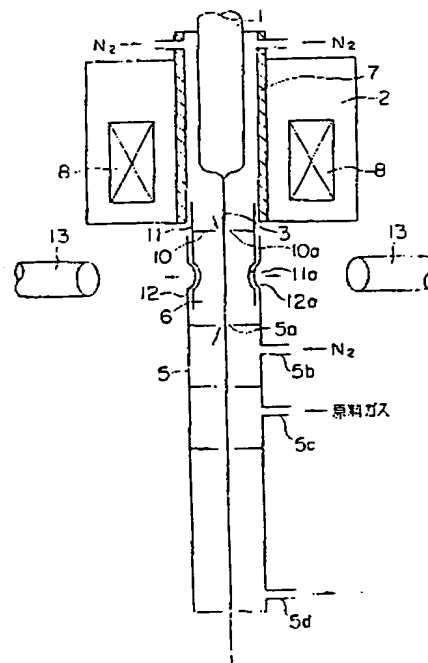
APPLICATION DATE : 15-02-90  
APPLICATION NUMBER : 02034074

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INT.CL. : C03C 25/02 C03B 37/00 G02B 6/44

TITLE : HERMETIC COATING DEVICE FOR  
OPTICAL FIBER



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ABSTRACT : PURPOSE: To uniformize hermetic coating by providing a gas buffer chamber which communicates with a drawing furnace and reaction tube and in which the bare fiber spun by the drawing furnace passes and communicating this chamber with the outdoor air through a discharge port which is freely adjustable in aperture area.

CONSTITUTION: A hermetic coating is applied on the surface of the bare fiber 3 which is spun in the drawing furnace 2 and is introduced through an introducing port 5a into the reaction tube 5. The buffer chamber 6 consisting of an upper pipe 11 fitted to the bottom end of the furnace 2 and a lower pipe 12 integral with the top end of the pipe 5 is provided between the furnace 2 and the pipe 5. The chamber 6 is communicated with the furnace 2 and the pipe 5 through a hole 10a in the central part of the wall 10 into which the fiber 3 and the gases in the furnace 2 are introduced and the introducing port 5a from which the gases in the pipe 5 are ejected. The overlap area of the plural windows 11a, 12a in the circumferential direction on the side faces of the pipes 11 and 12 is adjusted by relatively rotating these two pipes to communicate the chamber 6 with the outdoor air, by which the gaseous pressure in the chamber 6 is regulated lower than the gaseous pressure in the furnace 2 and the pipe 5 and higher than the outdoor air pressure. The interference of the gases entering the chamber with each other is suppressed in this way and the regulation of the amt. of the gases is possible.

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SEARCH REPORT